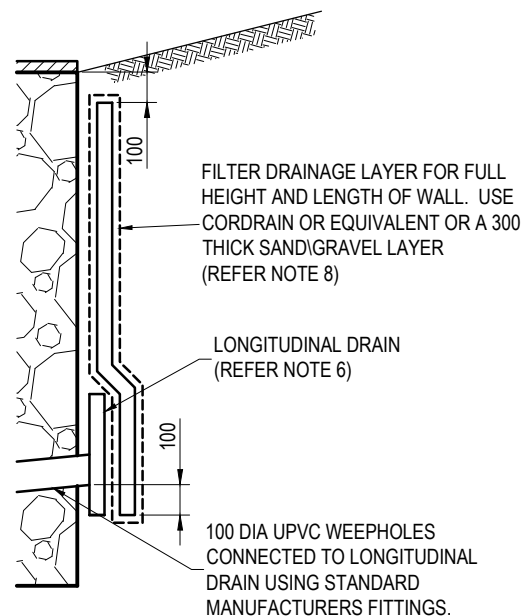


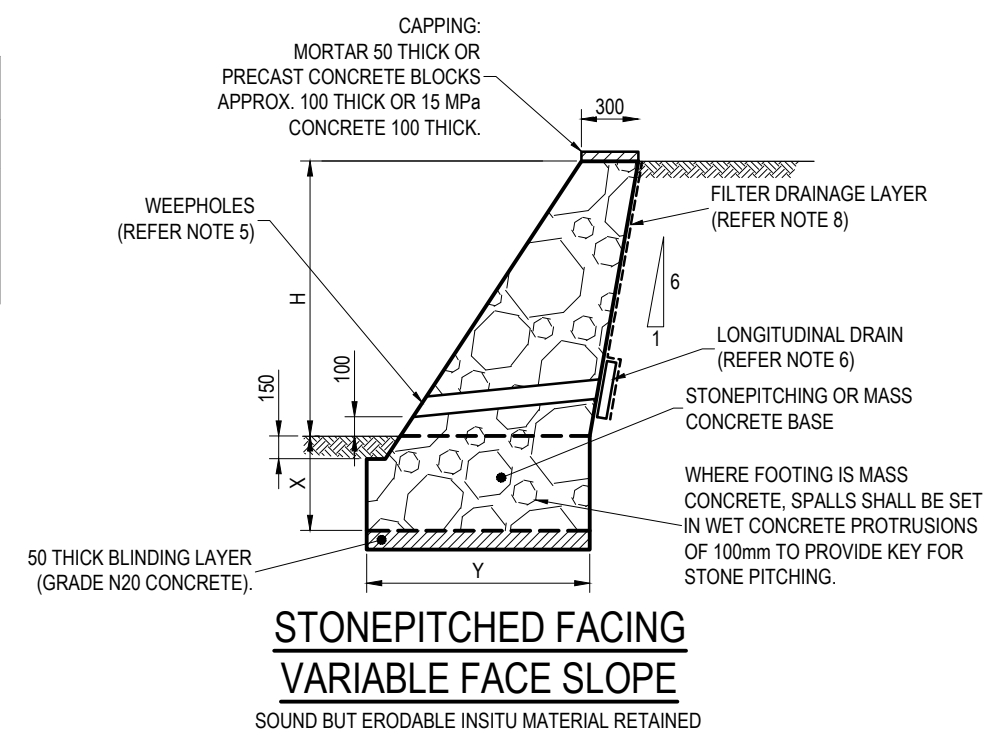
STONEPITCHED RETAINING WALL VERTICAL FACE
UNSTABLE INSITU MATERIAL RETAINED



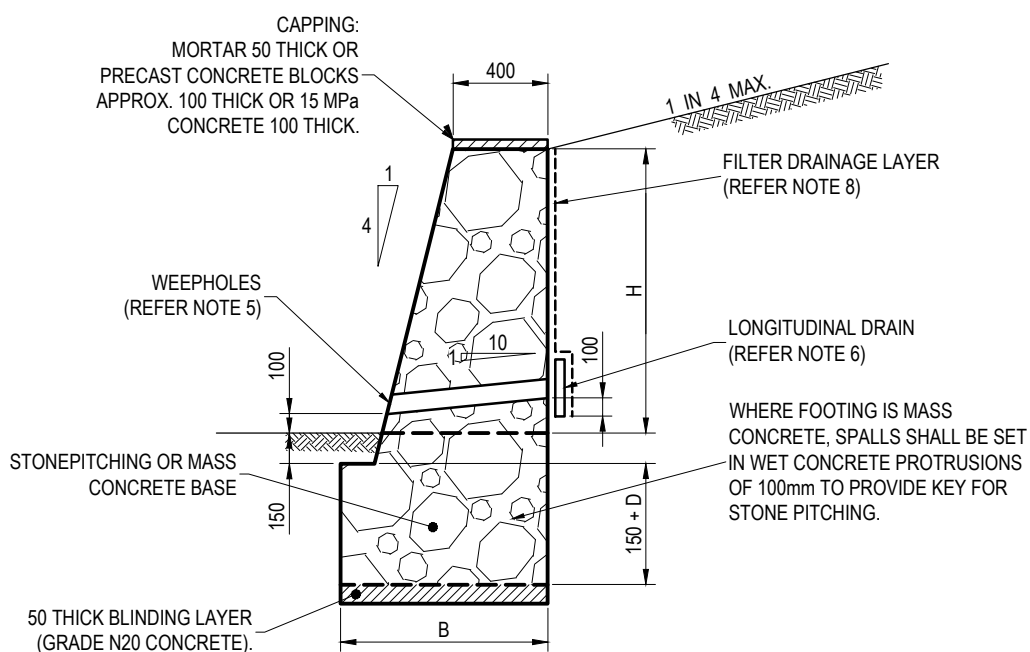
DRAINAGE DETAIL

WALL DIMENSIONS

LEVEL BACKFILL AND NO SURCHARGE		
H	X	Y
0 - 400	150	300
401 - 1000	300	350
1001 - 1500	500	600



STONEPITCHED FACING VARIABLE FACE SLOPE
SOUND BUT ERODABLE INSITU MATERIAL RETAINED



STONEPITCHED RETAINING WALL 4 IN 1 FACE SLOPE
UNSTABLE INSITU MATERIAL RETAINED

WALL DIMENSIONS

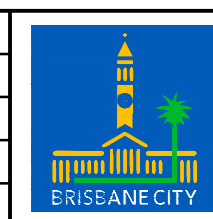
SLOPING BACKFILL 1 IN 4 (MAX) OR LEVEL WITH 5kPa SURCHARGE		
H	B	D
0 - 400	600	0
401 - 750	660	0
751 - 1000	775	200
1001 - 1250	850	250
1251 - 1500	925	300

NOTES:

1. THE WALL DIMENSIONS SHOWN ASSUME A MINIMUM ALLOWABLE BEARING CAPACITY OF 100 kPa IS AVAILABLE ON SITE. THE DESIGN IS NOT FOR VEHICLE LOADINGS HENCE A VEHICLE LOAD ON THE UPHILL LEVEL SHALL BE NO CLOSER THAN 'H' FROM THE REAR CAPPING EDGE.
2. MORTAR TO BE 1 PART CEMENT TO 3 PARTS SAND (BY VOLUME). FACE JOINTS TO BE 25mm NOMINAL WIDTH.
3. ROCKS TO BE SELECTED SPALLS SET IN CEMENT MORTAR BEDS IN HORIZONTAL LAYERS. UNLESS SPECIFIED OTHERWISE OPEN FACE STONEPITCHING TO BE USED WHERE THE CONCRETE IS RECESSED 50 BEHIND THE STONE FACING. IF CLOSED FACE STONEPITCHING IS SPECIFIED, CONCRETE TO BE FLUSH WITH THE STONE FACING. SELECT SPALLS TO AVOID SHARP EDGES.
4. A GEOTECHNICAL ASSESSMENT BY A SUITABLY QUALIFIED ENGINEER IS REQUIRED FOR ALL WALLS FOUNDED IN POOR MATERIALS (e.g. BEARING CAPACITY <100kPa).
5. INSTALL WEEPHOLES IN ADDITION TO THE LONGITUDINAL DRAIN FOR MAINTENANCE AND OVERFLOW PURPOSES. WEEPHOLES TO BE 100 DIA UPVC AT 1000 MAX. CENTRES, POSITIONED AT APPROXIMATELY 100 CONSTANT HEIGHT ABOVE ULTIMATE GROUND LEVEL AND CONNECTED TO THE LONGITUDINAL DRAIN USING STANDARD MANUFACTURERS FITTINGS.
6. LONGITUDINAL DRAIN SHALL BE 300x50 MEGAFLOW OR 100 DIA CORRUGATED PERFORATED POLYETHYLENE PIPE, ENCASED WITH BCC TYPE 2 GEOFABRIC (BIDIM A29 OR EQUIVALENT). THE INVERT OF THE LONGITUDINAL DRAIN SHALL BE 100 BELOW THE INVERT OF THE WEEPHOLE INLET. PREFERABLY THE LONGITUDINAL DRAIN SHALL OUTLET TO THE KERB AND CHANNEL, STORMWATER PIPE OR GULLY AT A MINIMUM SLOPE OF 1 IN 250 AND AT 25m INTERVALS. WHERE SUCH AN OUTLET IS NOT ACHIEVABLE, THE INVERTS OF THE LONGITUDINAL DRAIN AND THE WEEPHOLE INLET SHALL BE ALIGNED TO ALLOW DIRECT DISCHARGE VIA THE WEEPHOLE.
7. ALL CONNECTIONS, INCLUDING THE JOINING OF LENGTHS OF MEGAFLOW OR CORRUGATED PERFORATED POLYETHYLENE PIPE, SHALL BE MADE USING STANDARD MANUFACTURERS FITTINGS.
8. FILTER DRAINAGE LAYER FOR FULL HEIGHT AND LENGTH OF WALL TO BE CORDRAIN OR EQUIVALENT WITH BCC TYPE 2 GEOFABRIC (BIDIM A29 OR EQUIVALENT) ADHERED TO BOTH SIDES. ALTERNATIVELY, A 300 THICK, FREE DRAINING FILTER SAND/GRAVEL LAYER SEPARATED FROM INSITU MATERIAL BY A TYPE 2 GEOFABRIC LAYER.
9. BACKFILL SHALL BE FREE DRAINING, NON PLASTIC PREDOMINANTLY GRANULAR MATERIAL WITH MINIMUM FRICTION ANGLES OF 38° AND 27° WHERE FOUNDING MATERIALS ARE SAND OR OTHER MATERIALS RESPECTIVELY. DO NOT PLACE BACKFILL BEHIND THE WALL UNTIL AT LEAST 10 DAYS AFTER WALL CONSTRUCTION.
10. ALL COUNCIL RETAINING WALLS TO BE CONSTRUCTED IN THE ROAD CORRIDOR WHERE POSSIBLE. PRIVATE WALLS INCLUDING FOOTING TO BE CONTAINED WHOLLY WITHIN PRIVATE PROPERTY.
11. DIMENSIONS IN MILLIMETRES (U.N.O.).

ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE
B	Note 4 Updated - Removed 'Building Regulation' Requirement	JAN '19	APR '19	APR '19
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14

DRAWING AUTHORISED FOR PUBLICATION B.BALL SIGNATURE ON ORIGINAL DATED 29/6/01 R.P.E.Q. 3 8 5 2				DESIGN	Std Dwg's WG	DATE	April '01
ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT				DRAWN	CPO - P&D	DATE	April '01
DESIGN APPROVED B.HANSON SIGNATURE ON ORIGINAL DATED 27/6/01				CHECKED	M.STEER	DATE	May '01
PRINCIPAL ASSET OFFICER ROADS & DRAINAGE				DRAWING FILENAME	BSD-2221 (B) Retaining walls - Stonepitched.dwg		
				ASSOCIATED PLANS	SUPERSEDES UMS-411		



BRISBANE CITY COUNCIL STANDARD DRAWING	
RETAINING WALLS STONEPITCHED	
SCALE	NOT TO SCALE
DWG No.	BSD-2221
ORIGINAL SIZE	REVISION
A3	B